

WHAT IS CLAIMED IS:

- 1 ✓ 1. A device for flexibly routing and securing optical fibers in compliance with a
2 predetermined minimum bend radius, said device comprising:
3 a plurality of cooperating and contiguous surfaces;
4 a horizontal member joining said surfaces, said horizontal member separating said
5 plurality of surfaces into functionally different compartments, and at least one of said
6 plurality of surfaces forming a curved surface having a radius of curvature greater than a
7 predetermined minimum bend radius.
- 1 2. The device for routing and securing optical fibers of Claim 1 further comprising
2 a vertical retaining strip attached to said horizontal member having a fiber fitting
3 recess for securing said optical fibers in place in said device.
- 1 3. The device for routing optical fibers of Claim 2 wherein said vertical retaining strip
2 further includes:
3 a push-through access means operative to accept push-through placement of said
4 optical fibers routed via said access means.
- 1 4. The device for routing optical fibers of Claim 2 wherein said vertical retaining strip
2 further includes:
3 a fiber access slot.
- 1 5. The device for routing optical fibers of Claim 2 further comprising
2 a peg attached to said horizontal member for connecting said device in a fiber optic
3 shelf, said peg mountable in a fiber mounting hole in said shelf.

1 ✓ 6. A device for directing an optical fiber through an entry portal of a shelf from the
2 interior of said shelf to a raceway extending from the exterior of said shelf while
3 maintaining a predetermined minimum fiber bend radius, comprising:
4 a plurality of contiguous and cooperating sub-surfaces including a horizontal
5 member interconnecting said sub-surfaces;
6 at least one of said subsurfaces having a radius of curvature greater than a
7 predetermined minimum bend radius situated to guide said fiber and restrict said fiber to a
8 predetermined bend radius;
9 a retaining strip perpendicular to said horizontal member and having an access slot
10 for said optical fiber; and
11 a peg member at a first mounting position on said horizontal member.

1 7. The invention set forth in claim 6 further including a cooperating surface interfitting
2 said retaining strip to form adjustable securement of said optical fiber.

1 8. The invention set forth in claim 6 wherein another of said subsurfaces includes a
2 fiber access slot forming an entry portal for fibers communicating between the interior and
3 exterior of said shelf.

1 9. The invention set forth in claim 8 wherein said surface containing said access slot
2 additionally incorporates a shelf securement arrangement for orienting said device in a first
3 position, or in a second position which is 180° out of phase to accommodate top and
4 bottom cable routing and securement.

1 ✓ 10. A cable swivel device for routing optical fiber through an entry portal of a fiber
2 optic shelf, said cable swivel device maintaining predetermined fiber bend limits as said
3 optical fiber directed in a first direction is redirected in a second direction substantially
4 different from said first direction, the cable swivel comprising:
5 a plurality of sub-surfaces;
6 a plurality of horizontal members, each said horizontal member having a first end
7 and a second end, said first end connected to said plurality of sub-surfaces to form a curved
8 surface having a radius of curvature greater than a predetermined minimum bend radius,
9 said curved surface maintaining a consistent pathway for said optical fiber along said radius
10 of curvature when said fiber is routed in said first direction and said second direction;
11 a retaining strip, said retaining strip being perpendicular to said horizontal members
12 and connected to said second end of each of said horizontal members; and
13 said retaining strip having an access slot for said optical fiber.

1 11. The invention set forth in claim 10 further including a shelf entry portal in another
2 one of said sub-surfaces to furnish routing access between an exterior and interior surface
3 of shelf.

1 12. The invention set forth in claim 10 also including a securement member having a
2 fiber fitting recess which cooperates with said retaining strip to secure fibers proximate to
3 said curved surface.

1 13. The invention set forth in claim 11 wherein said shelf interior wall contains peg
2 members, and said sub-surface having said portal cooperates with said peg members to
3 locate the device relative to said shelf.

- 1 14. The invention set forth in claim 13 wherein the said peg members and sub-surface
2 cooperate to provide securement in two positions which are 180° relatively apart.

FOR FILING